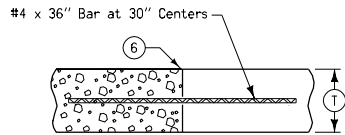
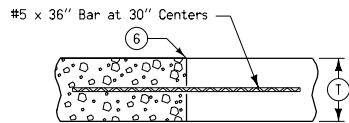


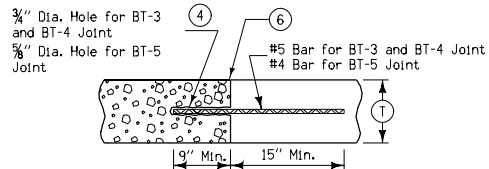
**'B'**  
**PLAIN JOINT**  
**For Abutting Pavement Slabs**



**'BT-1'**  
**ABUTTING PAVEMENT JOINT - RIGID TIE**  
**Where T is Less Than 8"**



**'BT-2'**  
**ABUTTING PAVEMENT JOINT - RIGID TIE**  
**Where T is 8" or more**

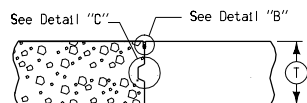


**ABUTTING PAVEMENT JOINT - RIGID TIE**  
**Where T is 8" or more**

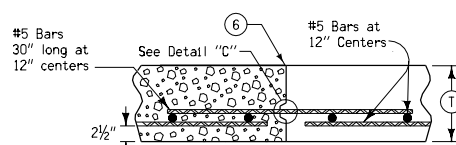
**'BT-3'**  
**24" Long at 30" Centers**

**'BT-4'**  
**24" Long at 15" Centers**

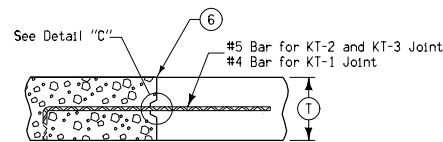
**Where T is Less Than 8"**  
**'BT-5'**  
**24" Long at 30" Centers**



**'K'**  
**KEYED JOINT FOR ADJACENT SLABS**  
**Where T is 8" or more**



**'KS'**  
**Longitudinal Joint for**  
**Reinforced Pavement**

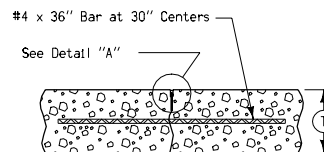


**ABUTTING PAVEMENT JOINT - KEYWAY TIE**  
**Where T is Less Than 8"**

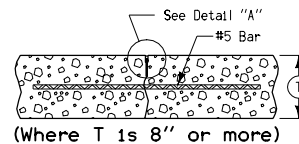
See Notes ① ⑤ **'KT-1'**  
**30" Long at 30" Centers**

**Where T is 8" or more**  
See Notes ① ⑤ **'KT-2'**  
**30" Long at 30" Centers**

See Notes ① ⑤ **'KT-3'**  
**30" Long at 15" Centers**

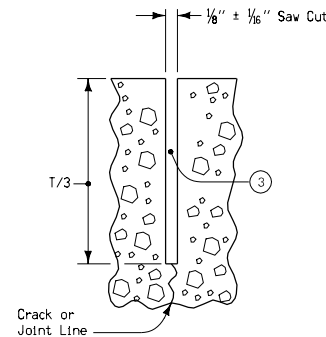


See Note ⑤ **'L-1'**  
**Where T is Less Than 8"**

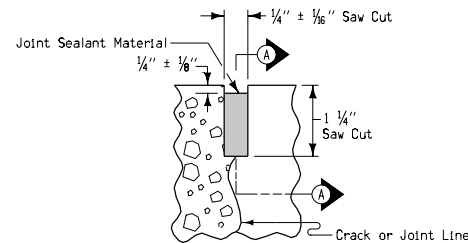


See Note ⑤ **'L-2'**  
**36" Long at 30" Centers**

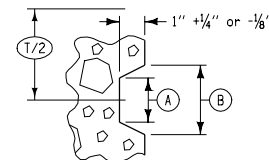
See Note ⑤ **'L-3'**  
**36" Long at 15" Centers**



**DETAIL "A"**

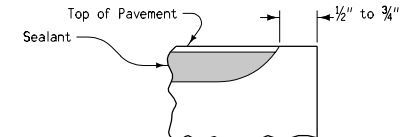


**DETAIL "B"**



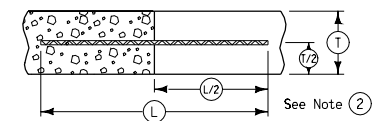
**DETAIL "C"**

KEYWAY DIMENSIONS			
Keyway Type	Pavement Thickness	(A)	(B)
Standard	8" or greater	1 3/4"	2 3/4"
Narrow	Less than 8"	1"	2"



**SECTION A-A**  
**Detail at Edge of Pavement**

- Bar supports may be necessary for fixed form paving to insure the bar remains in a horizontal position in the plastic concrete.
- When tying into old pavement, T represents the depth of sound Portland Cement Concrete.
- Sealant or cleaning not required.
- Placement of dowels or tie bars shall be in accordance with the current Standard Specification on "Reinforcement". The method of anchoring bars into existing pavement shall be as set forth in appropriate Materials Instructional Memorandums.
- The following joints are interchangeable, subject to the pouring sequence:  
'BT-1', 'L-1' and 'KT-1'  
'KT-2' and 'L-2'  
'KT-3' and 'L-3'
- Sawing or sealing of joint not required.



**TYPICAL TIE BAR PLACEMENT**  
Applies to all joints unless otherwise detailed.

Iowa Department of Transportation Highway Division	
STANDARD ROAD PLAN	RH-51
REVISION: Modify Detail 'A' and Section A-A.	REVISION NO. 16
APPROVED BY DESIGN METHODS ENGINEER <i>William J. Allen</i>	REVISION DATE 10-21-03

**JOINTS**  
**(LONGITUDINAL CONTRACTION)**